Project Approval Form
Please complete pages 1-2 of this form and the page(s) specific to your projects.

- Review the Project Requirements boxes on each project page for guidance on design and installation requirements.
- City of Kirkland staff will contact you with project approval within 2 weeks. Approval may include required changes to the plan that ensure your project meets qualifications.
- Projects that are installed without completed and approved project approval forms will not receive a rebate.


## Contact Information

Name $\qquad$
Phone $\qquad$
Email $\qquad$
Project Address $\qquad$

This form is being submitted for the following project(s) (check all that apply):
$\square$ Native landscaping - page 3
$\square$ Cisterns - page 7
$\square$ Rain garden - page 9


Send signed and completed form to:
YardSmart@kirklandwa.gov
-or-
Aaron Hussmann
City of Kirkland
$1235^{\text {th }}$ Ave
Kirkland, WA 98033

## Materials and Services - Estimated Costs

Please itemize materials and services, e.g. mulch, labor, plants, etc.

- Attach extra pages, if needed.
- You may attach a detailed, itemized contractors' estimate instead of an itemized list.

| Materials/Item | Description | Units <br> (yards, <br> hours, <br> etc.) | Price <br> per unit | Cost |
| :--- | :--- | :--- | :--- | :--- |
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Projected total cost: $\qquad$

## Statement of Understanding

Complete and sign the Statement of Understanding below. Unsigned forms will not be processed.

I, $\qquad$ , have completed this form accurately to the best of my ability.

To obtain a rebate after the project is completed, the installed project(s) must be inspected by the City of Kirkland and rebate paperwork must be completed.

Property Owner's Signature $\qquad$ Date $\qquad$

## Native Landscaping

## Project Requirements

## Location

$\square$ Must be combined with disconnecting minimum 400 square feet ( 800 sf for non-single family residential) of roof area or other impervious surface from City stormwater drainage system. Note: Max of 700sf per downspout unless approved by City.

- Landscaping must be in flow path of newly disconnected area.
$\square$ Landscaping area must be at least $20 \%$ of the size of impervious area draining to the landscaping (i.e. Draining 400 square feet of roof area requires 80 square of new native landscaping).
$\square$ On private property, outside of the public right of way (exceptions made on a case-bycase basis and may require additional permits).
$\square$ Call 811 for utility locates before you dig.
$\square$ Locate trees and shrubs $10^{\prime}$ from known underground utilities, $10^{\prime}$ from buildings, $10^{\prime}$ from property lines, $30^{\prime}$ from corner curb, $20^{\prime}$ from streetlights and other trees
$\square$ Trees planted under power lines must be less than $25^{\prime}$ tall at maturity
$\square$ Project must not send water onto a neighbor's property


## Design/Installation

$\square$ Native landscaping must replace lawn, weeds, extremely compacted soil, or pavement
$\square$ Lawn replacement requires either removal of or killing the grass (e.g. cardboard over a winter will kill most lawns) prior to tilling and amending soil
$\square$ Replacing pavement requires pavement and gravel removal, and then tilling and amending soil
$\square$ Minimum of $50 \%$ plant material native to the Pacific Northwest region (cultivars are acceptable). $50 \%$ of plants can be non-native but must not be invasive species
$\square$ Plant selection is appropriate for site conditions (sunny/shady, wet/dry, etc.)
$\square$ Recommended planting density

- Trees - 15 to 20 feet on center
- Shrubs - 6 to 8 feet on center
- Groundcover - 3 to 4 feet on center
$\square$ Scarify or till extremely compacted soils to a depth of 12 inches
$\square$ Dig 1-3 inches of compost into the top 5 inches of soil in the planting area
$\square$ Finish with a 3-inch plant-based mulch layer (arborists wood chips or equivalent)
$\square$ Do not use landscape fabric or plastic sheeting as a weed barrier


## Formal City of Kirkland approval required

## Native Landscaping

a) Who will be conducting this work?

O Property Owner O Contractor
b) Project Installer \& contact info?

Site Details

| c) What kind of surface will your <br> native landscape replace? | O Lawn <br> O Bare Soil | O Pavement <br> O Invasive Plants |
| :--- | :--- | :--- |
| d) Will the landscape receive <br> runoff from a roof or impervious <br> surface that will be disconnected <br> from the City stormwater drainage <br> system? | O Yes | O No |
| e) If yes, how many square feet of <br> roof area or impervious surface <br> will flow to landscaping? | ——n square feet700 sf max per <br> downspout unless <br> approved by City |  |

## Sizing Details

| f) Size of native landscaping project area? | ___ square feet | Minimum 20\% of impervious area (i.e. 400 sf of roof area requires 80 square feet of native landscaping) |
| :---: | :---: | :---: |
| g) Amount of compost needed | cubic yards | Minimum 1-3 inch depth <br> Multiply project area by planned compost depth. Divide result by 324 |
| h) Amount of mulch needed | ___ cubic yards | Minimum 3-inch depth <br> Multiply project area by planned mulch depth. Divide result by 324 |

## Required Supporting Documents

$\square$ 2-3 "before" images of your landscape area
$\square$ Plant List (page 5)
$\square$ Site design plan (page 6)

## Native Landscaping: Plant List

- List names of plants and quantities proposed for each planting area. Include quantity and pot size
- Identify native and non-native plants
- Include names and quantities of existing plants used in plan

| Plant Species <br> (Note native species with an "N") | Quantity | Pot Size |
| :--- | :--- | :--- |
| Ex. Red-flowering currant (N) | 1 | 1 gallon |
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## Native Landscaping: Site Design Plan

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| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Include:

- Dimensions of native landscaping
- Distance from any
structures
- Location descriptors (i.e. front, back, side yard)
- Planting plan (include plant species and plant locations)


## Cisterns

## Project Requirements

Water can be used for irrigation only (i.e. not drinking water)

## Location

$\square$ On private property, outside of the public right of way
$\square$ At least 5 feet from property line
$\square$ Above ground
$\square$ Cisterns must be installed on a solid, level concrete pad or other surface that will not allow the cistern to sink or tip
$\square$ Overflow drains onto a pervious surface (grass, garden, rain garden, etc.)
$\square$ Overflow drainage outlet directed a minimum of 5 feet away from foundation
$\square$ Project does not send water onto neighbor's property

## Design

$\square$ Cistern must drain a minimum roof area of 400 square feet.

- Roof area must be newly disconnected from City stormwater drainage system
$\square$ Cistern size: 200 to 1,000 gallons
$\square$ Secure lid
$\square$ Drain valve at bottom of tank for releasing water slowly - valve must remain open during the "wet season" months of October-May
$\square$ Overflow with pipe that drains onto a pervious surface (grass, garden, etc.)
$\square$ Clear access for clearing the inlets when necessary
Formal City of Kirkland approval required


## Cisterns

a) Who will be conducting this work?

O Property Owner O Contractor
b) Project Installer \& contact info?

## System Specifications

| c) What is the capacity of the cistern(s)? | ___ gallons | At least 200 gallons |
| :---: | :---: | :---: |
| d) What is the size of roof area draining to cistern(s)? | ___ square feet | Minimum 400 square feet |
| e) What material will be used for the cistern foundation? |  | Concrete pad, packed earth or sand, etc. |
| f) Size of foundation? | ___ square feet |  |
| g) Describe filtration system components |  |  |
| h) Where will cistern's overflow be directed to? |  | Direct a minimum 5 feet away from foundation |

## Required Supporting Documents

$\square$ An image of the cistern (e.g. an image from a website)
$\square$ Sketch indicating proposed location of cistern, in relation to buildings and other structures

## Rain Gardens

## Project Requirements:

## Location

$\square$ Call 811 for utility locates before you dig. Do not locate garden above utilities
$\square$ Installed in location which passes a soil drainage test

- 1 to 2 inches per hour is preferred, 0.5 inches per hour minimum
$\square$ Garden located on a slope not greater than 10\% (a 1 foot drop over 10 feet length)
$\square$ Minimum setback of 10 feet from top of rain garden to buildings, 10 feet from utilities, and 5 feet from property lines. Minimum setback of 15 feet from buildings with crawl space or basement elevation that are below the overflow point of the infiltration system
$\square$ Minimum setback of 50 feet from any slope greater than 20\%
$\square$ Do not locate immediately upslope of buildings
$\square$ Locate on private property, outside of the public right of way


## Design/Installation

$\square$ Lawn replacement requires either removal of or killing the grass (e.g. cardboard over a winter will kill most lawns) prior to tilling and amending soil
$\square$ Replacing pavement requires pavement and gravel removal, and then tilling and amending soil
$\square$ Rain garden is designed per the latest Rain Garden Handbook for Western Washington
$\square$ Rain garden must drain a minimum of 400 square feet or 800 square feet for multifamily or non-residential property
$\square$ Never send more than 1,000 square feet of roof or driveway runoff to a single rain garden
$\square$ Garden ponding area is 6 to 12 inches deep
$\square 4$ inches of amended soil tilled into upper 12 inches of soil or 12 inches of $60 \%$ sand, 40\% compost blend
$\square$ Maximum bottom slope of garden is $0.5 \%$
$\square$ Minimum 1-foot depth between bottom of bioretention soil mix and water table
$\square$ No invasive plant species
$\square$ Plants selection is appropriate for site conditions and placed in appropriate zones of rain garden
$\square$ Install streambed cobble at inlet and overflow to dissipate runoff
$\square$ Finished with a plant-based mulch layer of 3"
$\square$ Do not use landscape fabric or plastic sheeting as weed barrier

## Formal City of Kirkland approval required

## Rain Gardens

| Who will be conducting this work? | O Property Owner O Contractor |
| :--- | :--- |
| Landscape Designer \& contact info? |  |
| Project Installer \& contact info? |  |

## Site Details

$\square$ What kind of surface will your rain garden replace? (choose one)
O Lawn
O Pavement
O Bare Soil
O Invasive Plants

## Sizing Summary

Refer to Rain Garden Handbook for Western Washington to complete this section

| Sizing Calculations |  |  |
| :---: | :---: | :---: |
| A. Soil drainage rate | ____ inches per hour | Use results of soil drainage test |
| B. Area draining to rain garden | ___ square feet | See pages 18-19 of Handbook |
| C. Desired ponding depth | _ inches | Designer's preference (6" or 12") |
| D. Desired performance level | BEST |  |
| E. Rainfall region | Region 2 | See map on page 22 of Handbook |
| F. Sizing factor | _ \% | Use sizing chart on page 21 of Handbook |
| G. Soil texture |  | Sand, silt or clay? |
| Results/ Rain Garden Dimensions |  |  |
| Required size of top surface of ponding area | ____ square feet | Multiply area draining to garden (B) by sizing factor (F) |
| Design dimensions for top surface of ponding area | $\qquad$ ' Width X $\qquad$ <br> Length | Dimension that fit in available space $\&$ based on designer preference |
| Overflow containment area | $\qquad$ , Width X $\qquad$ <br> Length | Calculated by adding 1 foot horizontal to all sides for the 6inch vertical depth required on a 2:1 slope. See page 24 of Handbook |

## Rain Garden Inlet

$\square$ How will water be delivered to your rain garden?
O Pipe O Cistern O Swale O Other

## Rain Gardens

Soil Amendments

| Amount of rain garden <br> soil mix needed | cubic yards | 4-inch or 12-inch depth <br> Multiply top surface of ponding area <br> by proposed soil depth. <br> Divide result by 324 |
| :--- | :--- | :--- |
| Amount of mulch | cubic yards | 3-inch depth <br> needed |
| Multiply top surface of ponding area <br> by proposed mulch depth. <br> Divide result by 324 |  |  |

## Required Supporting Documents

ㅁ 2-3 "before" images of your rain garden area
$\square$ Plant List (page 12)
$\square$ Site Design Plan (page 13)

## Rain Gardens: Plant List

- List plants proposed for rain garden. Include quantity and pot size
- Identify native and non-native plants

| Plant Species <br> (Note native species with an "N") | Quantity | Pot Size |
| :--- | :--- | :--- |
| Ex. Red-flowering currant (N) | 1 | 1 gallon |
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## Rain Gardens: Site Design Plan

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Include:

- dimensions of the rain garden
- distance from any structures
- location descriptors (i.e. front, back, side yard)
- location of inlet and overflow of garden and how water will be conveyed to the garden
- planting plan (include plant species and plant locations)
$\square$

